

ANT1m ATGGGTGATCAGCTTGGAGCTTCTAAGGACTTCTGGCCGGGGCGTCCCGGTGCCCTCTCCAAGACGGCGTGC 80
 ANT2m ATGACAGATGCGCTGTGTCTTCGCCAAGGACTTCTGGCAGGTGGAGTGGCCGAGCCATCTCCAAGACGGCGTAGC 80
 ANT3m ATGACGAGACAGGCATCTCTTCGCCAAGGACTTCTGGCCGAGGCATCGCCGCGCCATCTCCAAGACGGCGTGGC 80

ANT1m CCCCATCGAGAGGGTCAAACTGCTGCTGCAGGTCCAGCATGCCAGCAACAGATCAGTGTGAGAAAGCAGTACAAAGGA 160
 ANT2m CCCCATCGAGCGGGTCAAGCTGCTGCTGCAGGTCCAGCATGCCAGCAAGCAGATCACTGCAGATAAGCAATACAAAGGCA 160
 ANT3m TCCGATCGAGCGGGTCAAGCTGCTGCTGCAGGTCCAGCAAGCCAGCAAGCAGATCGCCGCGAAGCAGTACAAAGGCA 160

ANT1m TCATTGATTGTGGTGAGATCCCTAAGGAGCAGGGCTTCTCTCTCTGGAGGGTAACCTGGCCAACGTATCCGT 240
 ANT2m TTTATAGACTGCGTGGTCCGTATTTCCCAAGGAGCAGGAAGTTCTGTCTTCTGGCAGGTAACTGGCCAAATGTACATAGA 240
 ANT3m TCGTGACTGCAATGTCCGATCCCCAAGGAGCAGGGCGTCTGTCTTCTGGAGGGGAACCTTGCCAACGTCAATCGC 240

ANT1m TACTTCCCCACCAAGCTCTCAACTTCGCCTTCAAGGACAAGTACAAGCAGCTCTTCTTGGGGGTGTGGATCGGCATTA 320
 ANT2m TACTTCCCCACCAAGCTCTTAACTTCGCCTTCAAGATAATACAAGCAGATCTTCTGGGTGGTGTGGACAAGAGAAC 320
 ANT3m TACTTCCCCACTCAAGCTCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGATCTTCTGGGGGGTGGACAAGCAC 320

ANT1m GCAGTTCTGGCGCTACTTTGTTGGTAACCTGGGTCCGGTGGGGCGGTGGGGCCACCTCCCTTTGCTTTGTATACCCGC 400
 ANT2m CCAGTTTGGGTCTACTTTGCAGGGAATCTGGCATCGGTGGTGCCGAGGGGCCACATCCCTGTGTTTGTGTACCCGC 400
 ANT3m GCAGTTCTGGAGTACTTTGGGGAACCTGGGTCCGGTGGGGCGGTGGGGCCACCTCCCTTGTCTTGTGTACCCGC 400

ANT1m TGGACTTTGTAGGACAGGTTGGGTGCTGATGTGGGAGGC---GCGCCAGCGTGAGTTCCATGGTCTGGCGACTGT 477
 ANT2m TTGATTTTGCCTTACCCGTCTAGCAGCTGATGTGGGTAAAGCTGGAGCTGAAGGGAATCCGAGGCCTGGTACTGC 480
 ANT3m TGGATTTTGCAGAACCCGCTGGCAGCGGAGTGGGAAGTCAAGGACAGAGCGGAGTTCCGAGGCCTGGGAGACTGC 480

Fig. 1A

ANT1m ATCATCAAGATCTTCAAGTCTGATGGCTTGAAGGGGCTTACCAGGGTTTCAACGTCTCTGTCCAAGGCATCATATCTA 557
ANT2m CTGGTTAAGATCTACAAATCTGATGGATTAAAGGCCTGTACCAAGGCTTTAACGTCTCTGTGCAGGGTATATCATCTA 560
ANT3m CTGGTTAAGATCAACAAGTCTGACGGCATCCGGGCCTGTACCAGGGCTTCAAGTCTCTGTGCAGGGCATCATCTA 560

ANT1m TAGAGTGCCTACTTCGGTGTCTATGATACTGCCAAGGGATGCTGCTGACCCCAAGAAGTGCACATTTTGTGAGCT 637
ANT2m CCGAGCGCCTACTTCGGTATCTATGACTGCAAGGGATGCTTCCGATCCCAAGAACAATCACATCGTATCAGCT 640
ANT3m CCGAGCGCCTACTTCGGTGTATGATACGCCAAGGGATGCTCCGACCCCAAGAACGCGACATCGTGTGAGCT 640

ANT1m GGATGATTTGCCAGAGTGTGACGGGAGTCCGAGGGCTGTGTCTACCCCTTTGACACTGTTCTGTTAGATGATGATG 717
ANT2m GGATGATCGCACAGACTGTCACTGCTGTGCCGGTTGACTTCTATCCATTTGACACTGTTCCGCGCGCATGATGATG 720
ANT3m GGATGATCGCGCAGACGTGACGGCGTGTGCCGGCTGTGTCTACCCCTTGACACGTGCGCGCGCATGATGATG 720

ANT1m CAGTCCGGCCGAAAGGGCGGATATATGTACAGGGGACAGTTGACTGCTGGAGGAAGATTGCAAAAGACGAAGGAGC 797
ANT2m CAGTCCGGCGCAAAGGACTGACATCATGTACACAGGCAAGCTTGACTGCTGGGGAAGATTGCTCGTGATGAAGGAGG 800
ANT3m CAGTCCGGCGCAAAGGAGCTGACATCATGTACAGGGCAAGCTTGACTGTTGGAGGAAGATCTTCAGAGATGAGGGGG 800

ANT1m CAAGGCCTTCTTCAAGGTGCTGGTCCAATGTCTGAGAGGCATGGGCGGTGCTTTTGTATTTGGTGTGTATGATGAGA 877
ANT2m CAAAGCTTTTCAAGGGTGCATGGTCCAATGTCTGAGAGGCATGGGCGGTGCTTTTGTGCTTTGTCTTGTATGATGAAA 880
ANT3m CAAGGCCTTCTTCAAGGGTGCATGGTCCAAGTCTGCGGGCATGGGGGGCTTTGTGCTGGTCTGTATGACAGAGC 880

ANT1m TCAAAAATATGTCTAA 894
ANT2m TCAAGAAGTACATAA 897
ANT3m TCAAGAAGTGATCTAA 897

Fig. 1B

HANT1p MGDAHSFLKDFLAGVAAAVSKTAVAPIERVKLLQVQHASKQISAEKQ 50
 HANT2p MTDAAVSFAKDFLAGGVAAASKTAVAPIERVKLLQVQHASKQITADKQ 50
 HANT3p MTEQALISFAKDFLAGGTAAAISKTAVAPIERVKLLQVQHASKQITADKQ 50

HANT1p YKGIIDCVVRIPKEQGLSFWRGNLNVIRYFPTQALNFAFKDKYKQIFL 100
 HANT2p YKGIIDCVVRIPKEQEVLSFWRGNLNVIRYFPTQALNFAFKDKYKQIFL 100
 HANT3p YKGIIDCVVRIPKEQVLSFWRGNLNVIRYFPTQALNFAFKDKYKQIFL 100

HANT1p GGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGRRA 149
 HANT2p GGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGRRA 150
 HANT3p GGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGRRA 150

HANT1p EREFRGLGDCLVKIYKSDGIRGLYQGFNVSVQGIIYRAAYFGVYDTAKG 199
 HANT2p EREFRGLGDCLVKIYKSDGIRGLYQGFNVSVQGIIYRAAYFGVYDTAKG 200
 HANT3p EREFRGLGDCLVKIYKSDGIRGLYQGFNVSVQGIIYRAAYFGVYDTAKG 200

HANT1p MLPDPKNTHIVVSWMIAQVTAVAGLISYPFDTVRRRMMQSGRKGADIM 249
 HANT2p MLPDPKNTHIVVSWMIAQVTAVAGLISYPFDTVRRRMMQSGRKGADIM 250
 HANT3p MLPDPKNTHIVVSWMIAQVTAVAGLISYPFDTVRRRMMQSGRKGADIM 250

HANT1p YTGTVDCWRKIARDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYV 298
 HANT2p YTGTVDCWRKIARDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYV 299
 HANT3p YTGTVDCWRKIARDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYV 299

Fig. 2

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

Express Mail No. EL 755725003 US

Inventors: Christen M. Anderson et al. Serial No. 09/811,131 Docket No. 660088.420D1

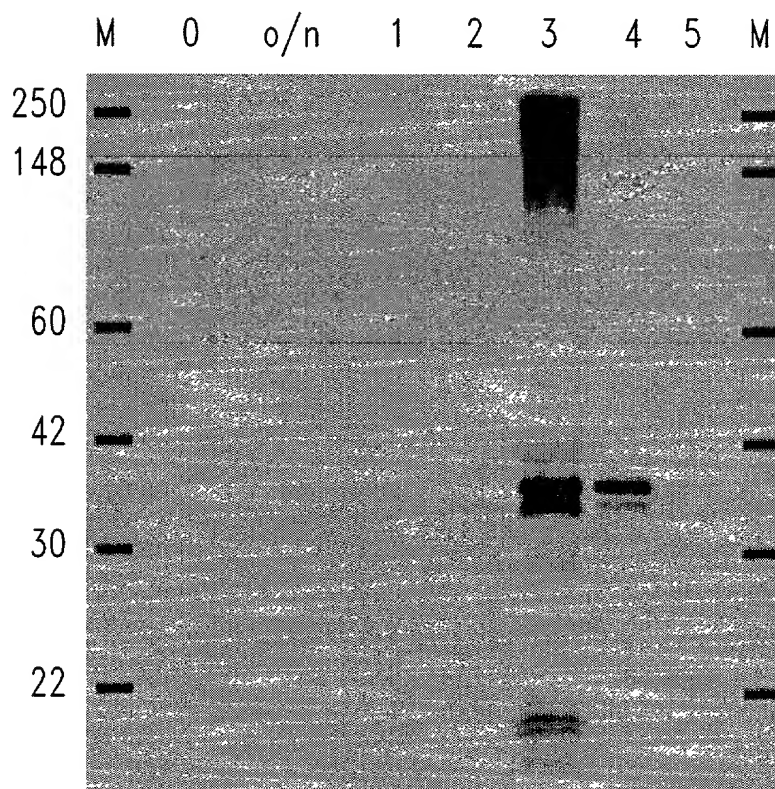


Fig. 3

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

Express Mail No. EL 755725003 US

Inventors: Christen M. Anderson et al. Serial No. 09/811,131 Docket No. 660088.420D1

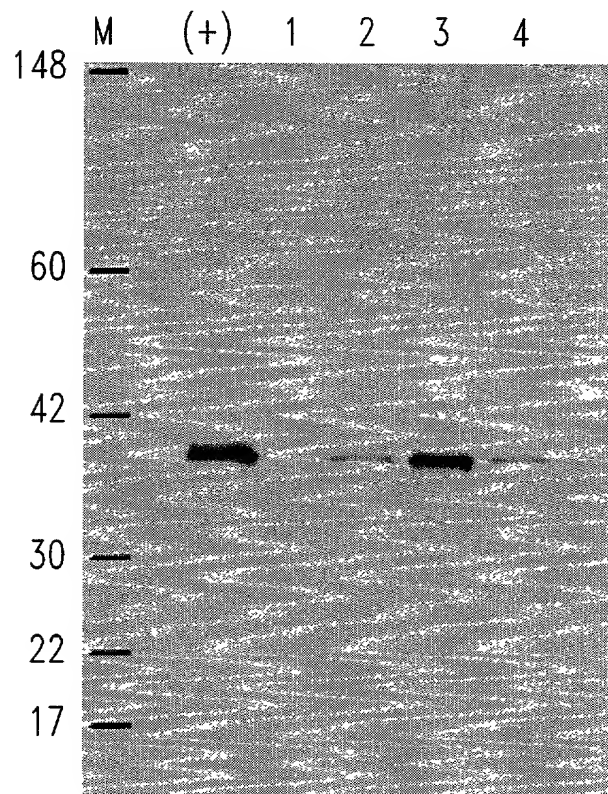


Fig. 4

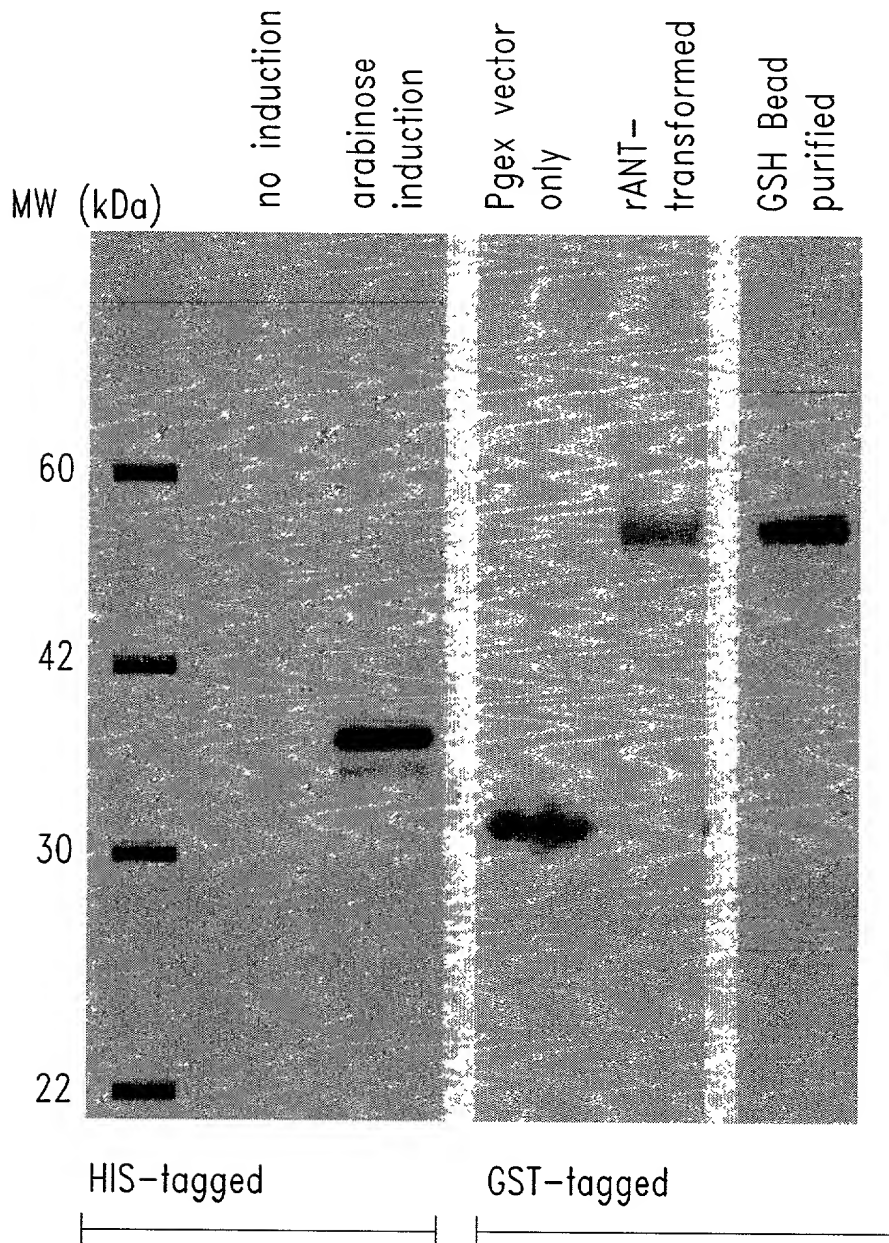


Fig. 5

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

Express Mail No. EL 755725003 US

Inventors: Christen M. Anderson et al. Serial No. 09/811,131 Docket No. 660088.420D1

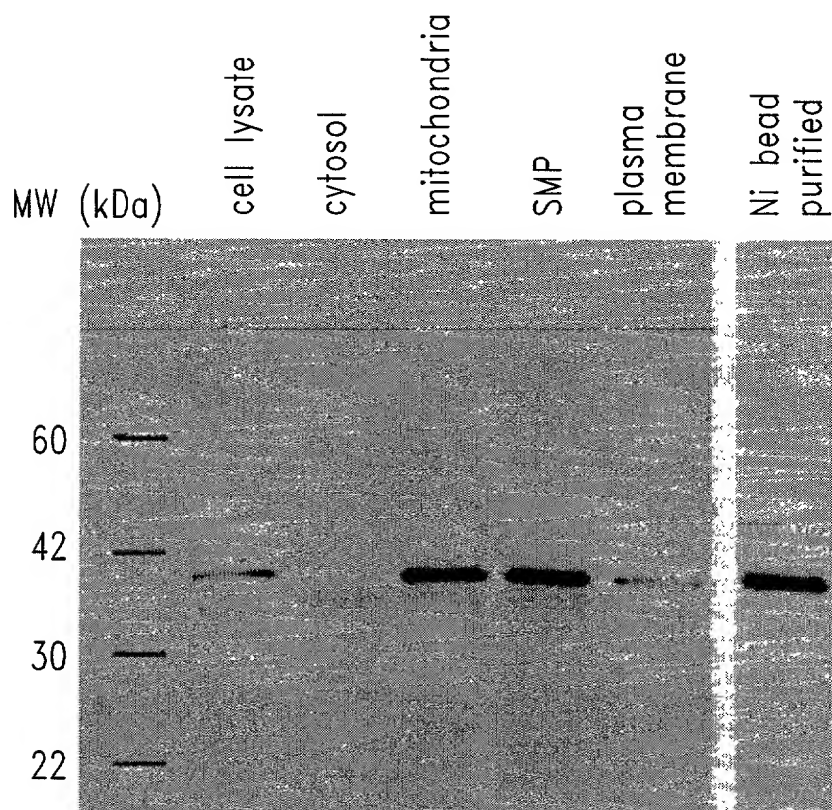


Fig. 6

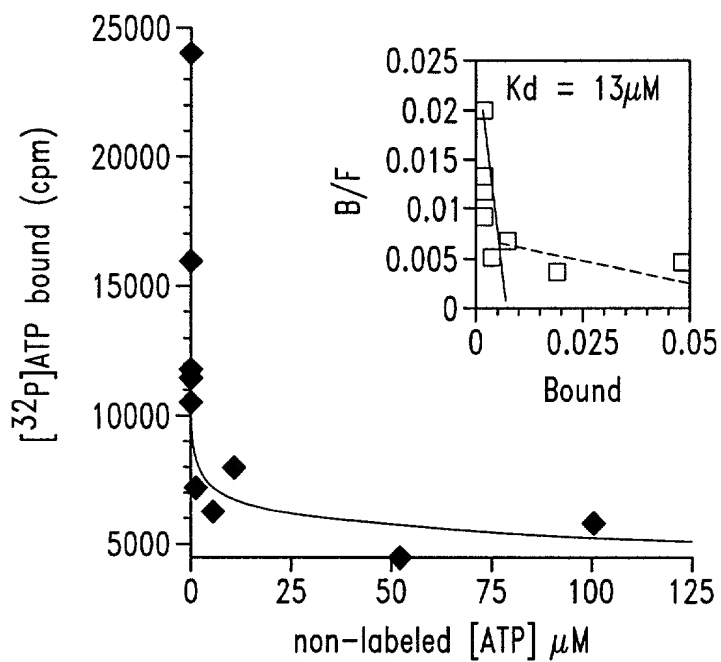


Fig. 7

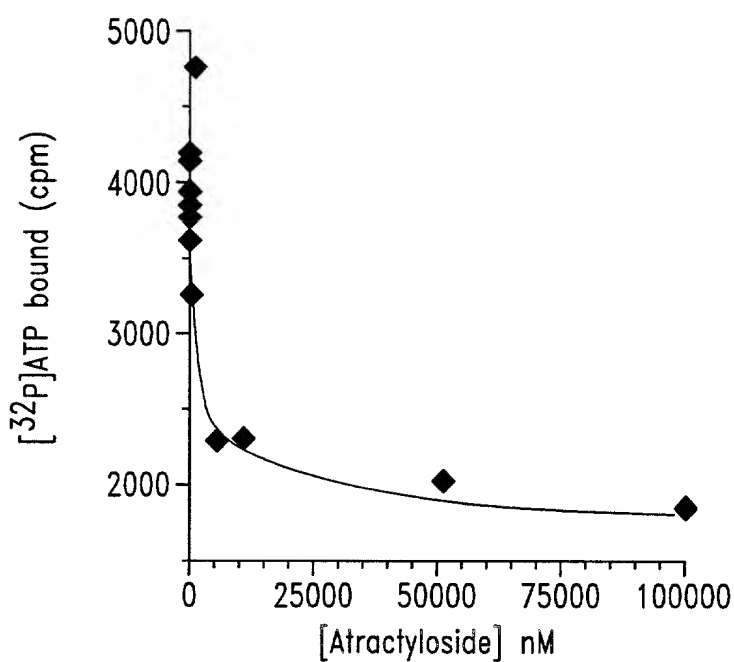


Fig. 8

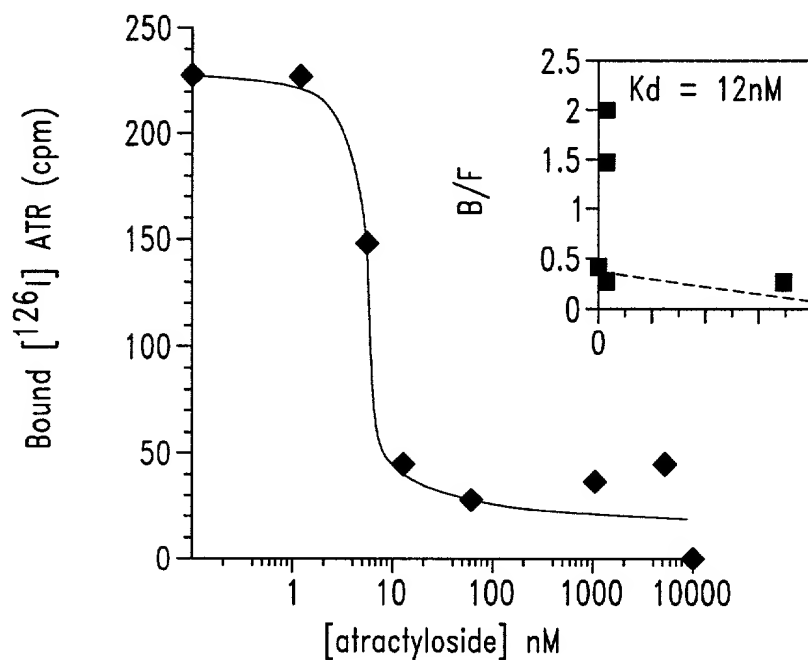


Fig. 9

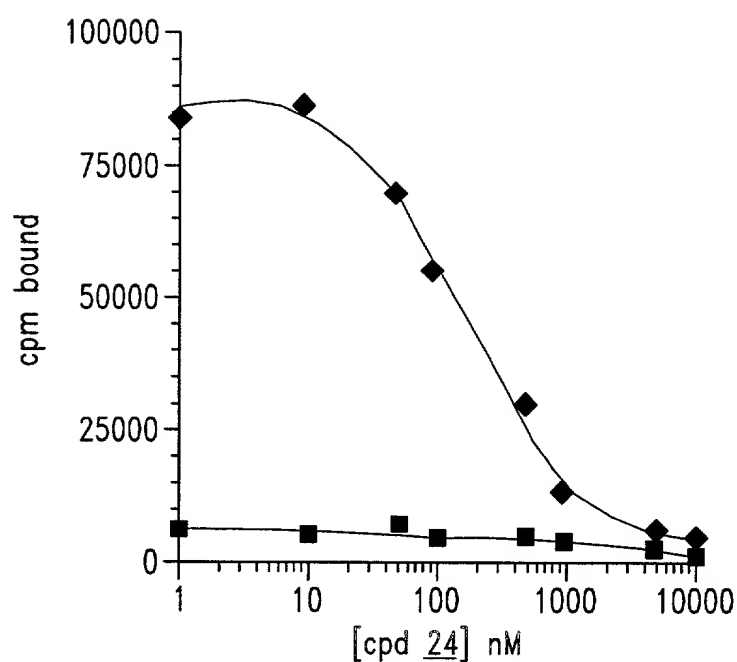


Fig. 11

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

Express Mail No. EL 755725003 US

Inventors: Christen M. Anderson et al. Serial No. 09/811,131 Docket No. 660088.420D1

TOE250" TETT860

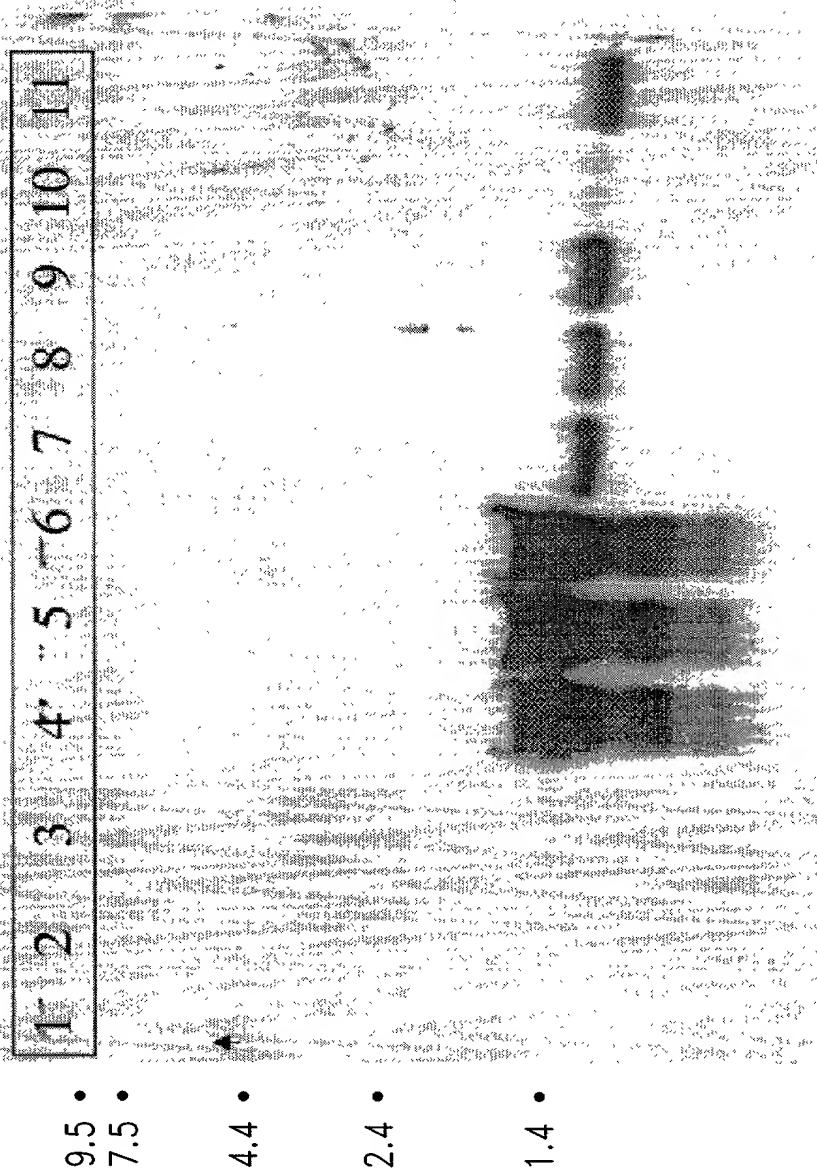


Fig. 10

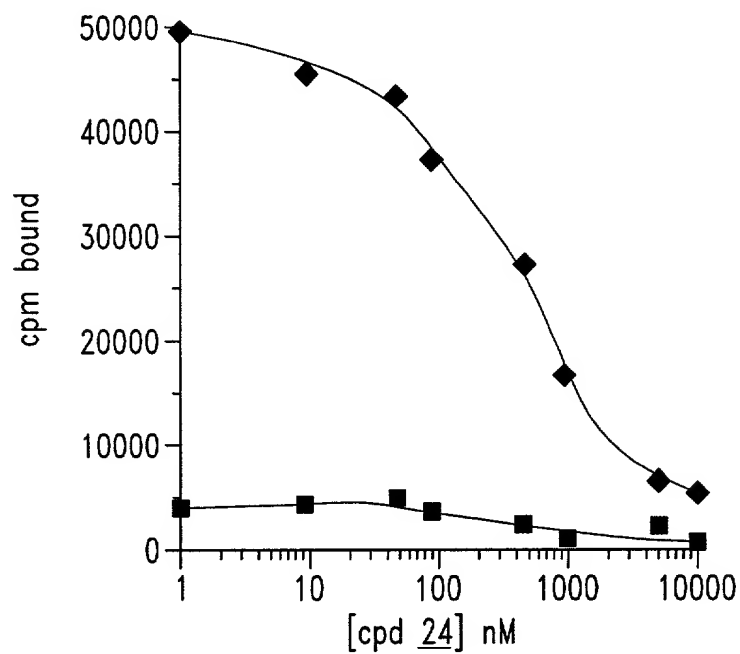


Fig. 12

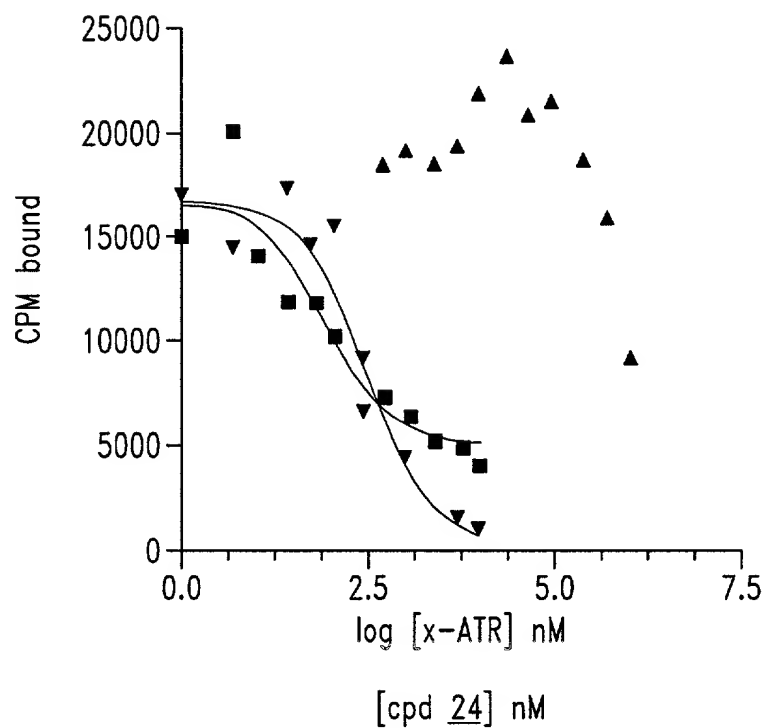


Fig. 13

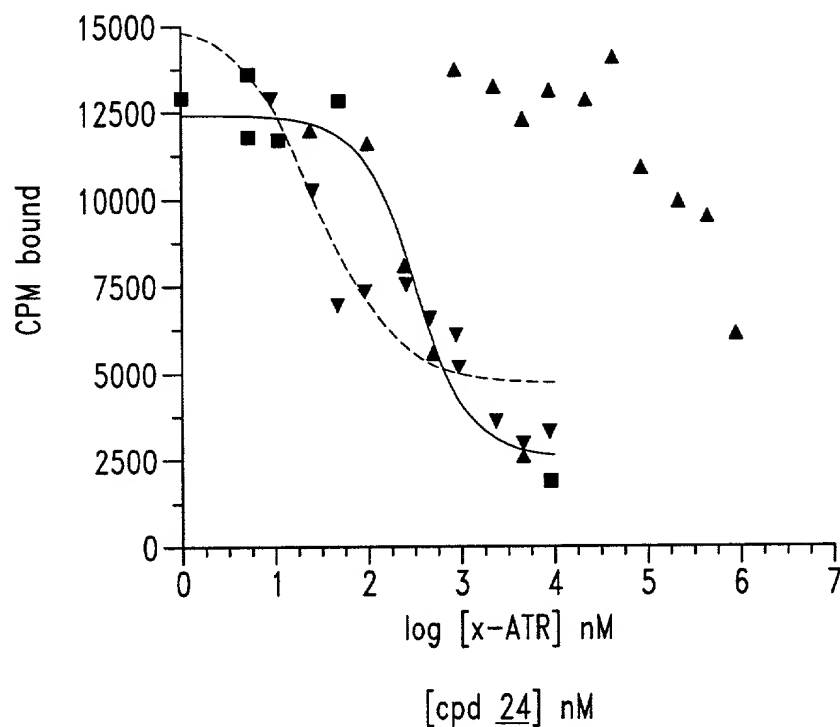


Fig. 14

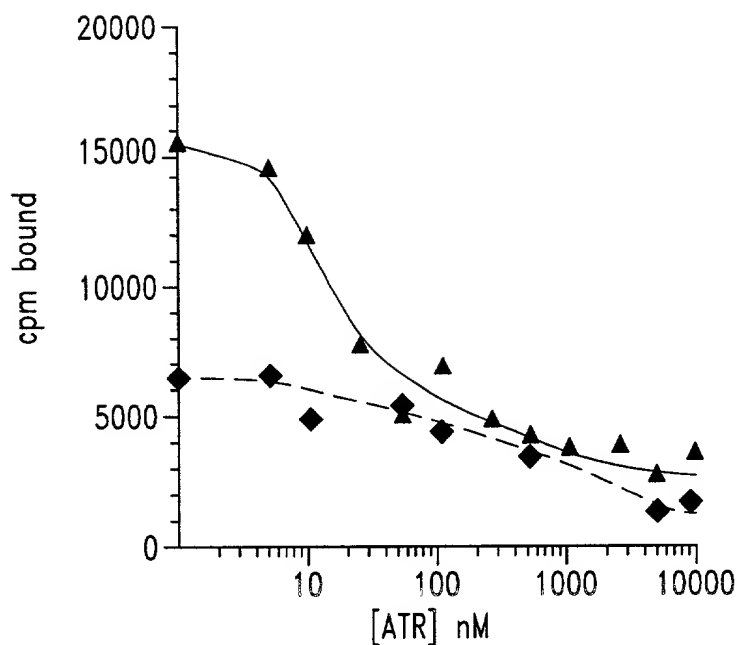


Fig. 15

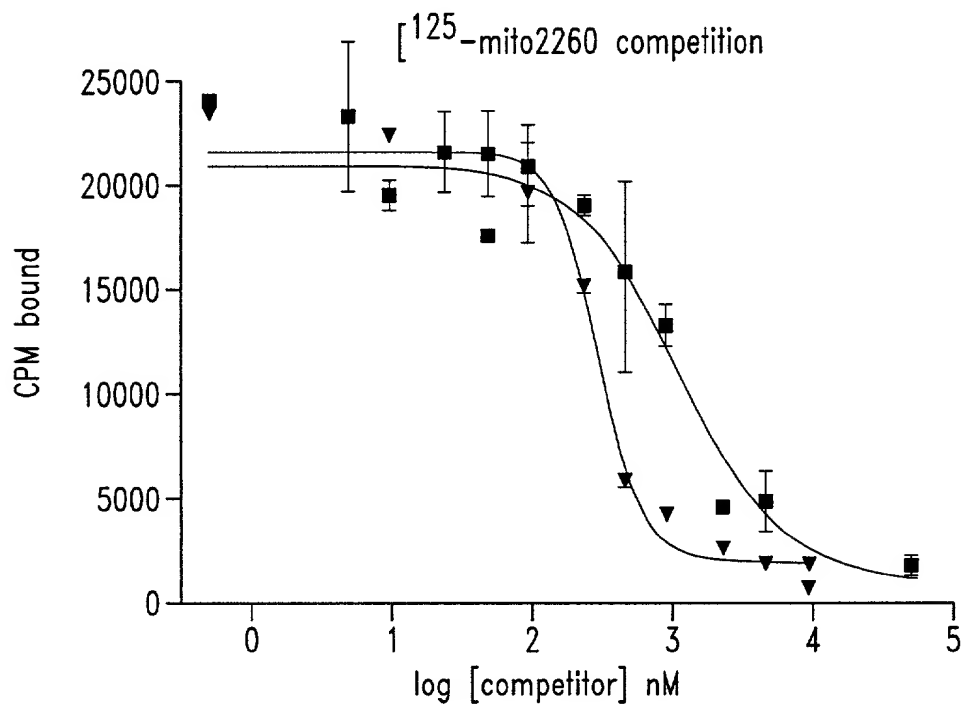


Fig. 16

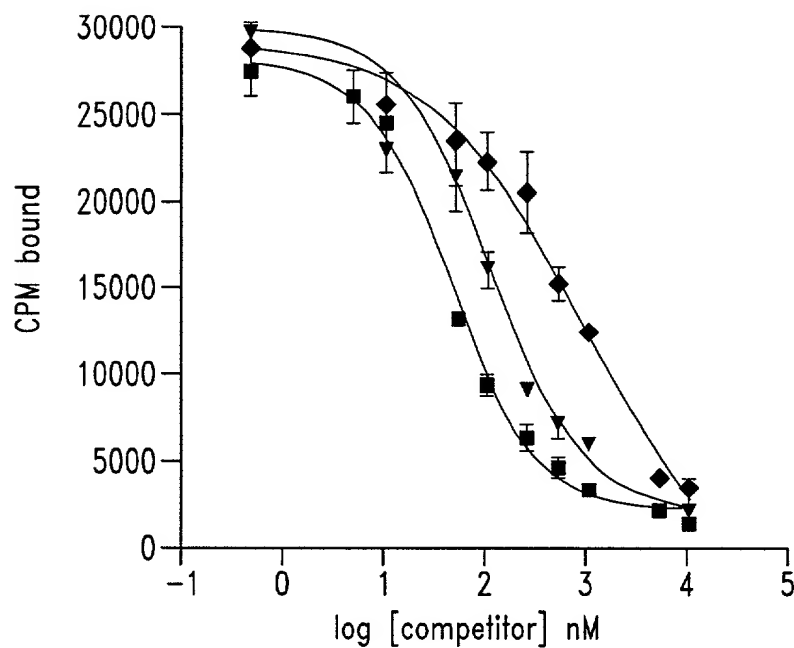


Fig. 17

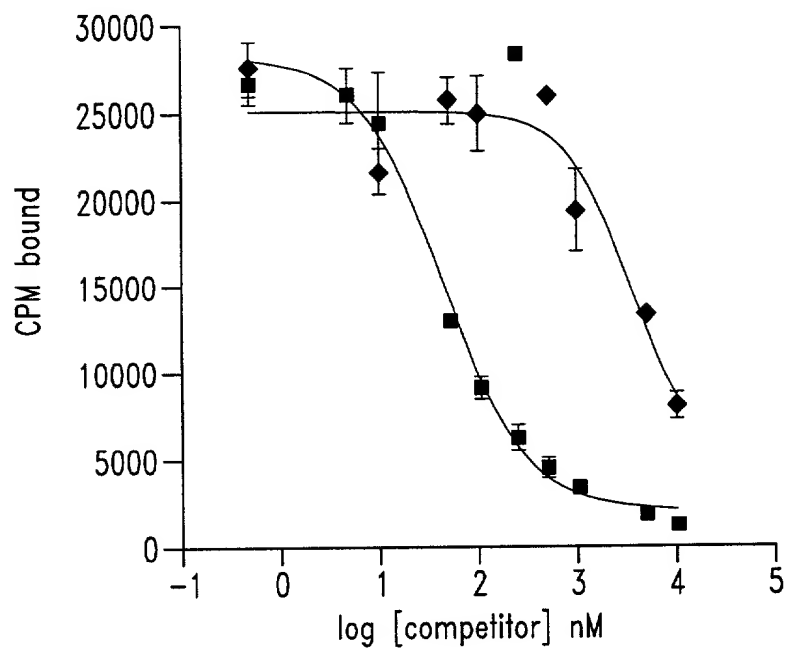


Fig. 18

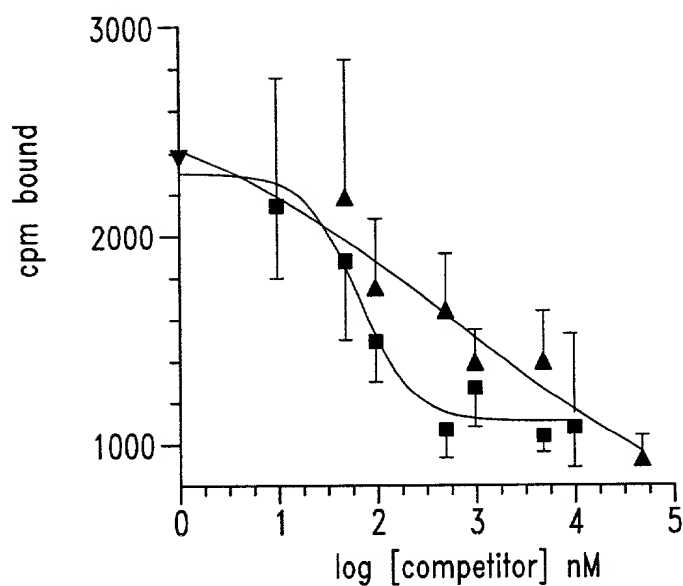


Fig. 19